

### ABSTRACT

A tire building system, which does not require prolonging tact time for tire building, specific occupying space for endless circulative traveling of a building carriage, and increasing noises and vibrations, and which is free from possibility of premature deterioration of carriage positioning accuracy. The system includes workstations configured to mount applicable tire components onto a building drum, respectively; a building carriage configured to support the building drum to thereby move the building drum among the respective workstations; and carriage guiding means for guiding a movement of the building carriage on a predetermined path. The carriage guiding means includes two inner and outer endless rails, and wheels provided on the building carriage, the wheels each being configured to roll on opposite side surfaces of associated one of the endless rails to thereby restrict a carriage position in a direction orthogonal to an extending direction of the endless rails. The endless rails are each configured with a straight portion and an arcuate portion which are smoothly continued to each other, and the arcuate portion has a rail width  $W$  narrower than a rail width of the straight portion.